energy are at experimental stage internationally, and are at present costlier then land based projects. There are no immediate plans for taking up such projects.

**50 Percent Subsidy to State Governments liar Non-Conventional Energy Generation**

3197. SHRIMATI CHANDRIKA ABHINANDAN JAIN: Will the PRIME MINISTER be pleased to state:

(a) whether the Central Government have taken a decision for exploitation of non-conventional energy sources;

(b) if so, whether Government would grant 50 percent subsidy to the State Governments which would generate power either by State sector or private sector;

(c) if so, the details thereof;

(d) whether any request/proposals have been received from Gujarat under this scheme; and

(e) if so, when and what measures government have taken thereon so far?

THE MINISTER OF STATE IN THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI S. KRISHNA KUMAR): (a) Yes, Madam. Ministry of non-Conventional Energy Sources is implementing a wide ranging programme throughout the country to exploit Non-Conventional Energy Sources such as solar, wind, biomass, hydro etc.

(b) and (c) The subsidy provided by the Government for demonstration projects of power generation from renewable energy is given in the Annexed Statement *{See* below). The participation of private sector is being encouraged in power generation through a package of fiscal incentives, and market development. World Bank's lines of credit are available for private sector wind farms, small hydro and solar photovoltaic projects.

(d) and (e) Two wind power projects of 2 MW each have been sanctioned at Dhank and Bamanbore in Gujarat Request for sanctioning 44C solar lanterns are under consideration.

**Solar and Wind Energy Project With U.S. Help**

3198. SHRI V. HANUMANTHA RAO: Will the PRIME MINISTER be pleased to state:

(a) whether the recent U.S. Delegation led by their Energy Secretary offered energy projects in solar energy sector and wind energy sector,

(b) if so, the details of such proposals;

(c) whether any such project will be located in Andhra Pradesh; and

(d) the details of any foreign funded or foreign-assisted non-conventional energy proj ects proposed for Andhra Pradesh?

**Statement**

| S. No. | Programme | Pattern of Central/Assistance subsidy |
|---|---|---|
| 1. | Wind Power Demonstration Projects | 6056 of Wind Electric Cenerator (WEG) |
| 2. | Small Hydro Projects (SHP) both grid/non-grid connected projects. | 50% of the fixed capital cost on E&M equipments & civil works. |
| 3. | Bagasse based Cogeneration | 30% of equipment cost.(maximum Rs. 70.00 lakhs) |
| 4. | Biomass combustion based Power generation | 30% of equipment cost.(maximum Rs. 70.00 lakhs) |
| 5. | Biomass Gasifiers | 60% of the cost of gasifier systems |
| | (a) Electrical & Mechanical Applications | 30% of the cost of gasifier systems. |
| 6. | SPV Systems/Small village level plants | 50% (Under Socially Oriented Scheme) (Ex-works cost) |

THE MINISTER OF STATE IN THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI S KRISHNA KUMAR): (a) Yes, Sir.

(b) Five US companies have entered into collaboration with Indian companies in the area of solar and wind energy. Details are given in the Annexed Statement *(See* below)

(c) So far no site specific proposal has been concretised.

(d) At present, no specific foreign funded or foreign assisted project is proposed for Andhra Pradesh.

**Statement**

1. MOU between M/s Bharat Electronics Ltd. of India and M/s Spire of US in the area of Solar Photovoltaics.

2. MOU between M/s Emgre Solar of India with M/s Martin Marietta of US in the area of Solar Photovoltaics.

3. MOU to establish a manufacturing line that will assemble photovoltaic modules of component manufactured in US between Solec, USA and Solec Pentafour, India.

4. MOU between Cannon Power, California, USA and Bangur Group of Calcutta to set up a 25 MW wind farm. Cannon is the first US Wind Energy Company to open a permanent office in India.

5. M/s Siemens Solar has announced commencement of their Indian operations in the area of solar photovoltaics.

**Mini-Hydel Power Projects in the Country**

3199. SHRI K.M. KHAN: Will the PRIME MINISTER be pleased to state:

(a) whether Government have setup Mini-Hydel Power Projects at different places of the country;

(b) if so, their locations. State and Union-Territory-wise, alongwith the share of the Union Government in each of them;

(c) whether any of such Mini-Hydel Power Projects have also been set up in Andhra Pradesh during 1991-92, 1992-93, 1993-94; and

(d) if so, the details thereof and if not, the reasons therefor with steps to be taken in this regard?

THE MINISTER OF STATE IN THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI S. KRISHNA KUMAR): (a) to (d) Yes, Sir. Details of Small Hydro Power Projects upto 3 MW station capacity set up in various States, including Andhra Pradesh under the capital subsidy scheme of the Ministry of non-Conventional Energy Sources, are given in the annexed Statement.

**Statement**

*Details of Small Hydro projects upto 3 MW capacity set up under MNES subsidy scheme*

| State | No of Project | Total capacity (KW) | Total MNES subsidy (Rs/lakhs) |
|---|---|---|---|
| 1. Haryana | 1 | 300* | 119.00 |
| 2. Himachal | 2 | 350 | 88.20 |
| 3. Uttar Pradesh | 3 | 200 | 50.35 |
| 4. Andhra Pradesh | 2 | 2000 | 179.00 |
| 5. Orissa | 2 | 1150 | 135.00 |

*200 KW so far commissioned

**UNDP Assistance for small Hydel Plants**

3200. SHRI YERRA NARAYANA-SWAMY: Will the PRIME MINISTER be pleased to state:

(a) whether UNDP assistance is available for establishing small Hydel Plants in the hilly regions in India;

(b) whether UNDP assistance would be in the form of financial assistance or technical assistance;

(c) the details of UNDP assistance available for development of Non-conventional Energy through small Hydel Plants;

(d) whether the hilly areas in Andhra Pradesh have been surveyed and sites indentified for such plants with UNDP assistance; and

(e) if so, the details thereof?